

SERVICE  
MANUAL

ET243

**marantz®**

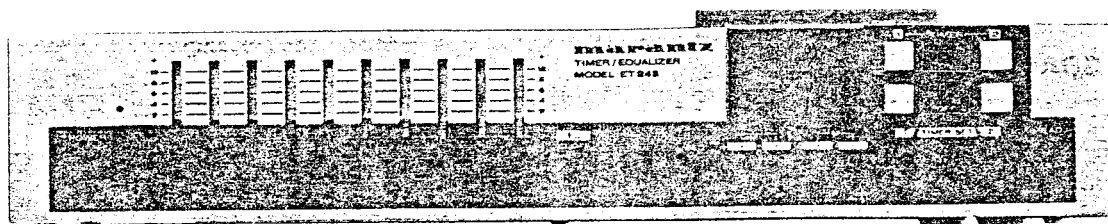
model ET243

*Timer/Equalizer*

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## MARANTZ MODEL ET243 TIMER/EQUALIZER



### INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for the Marantz Model ET243 Timer/Equalizer.

Servicing information and voltage data included in this manual are intended for use by knowledgeable and experienced personnel only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of circuitry operation.

The parts list furnishes complete ordering information. Most replacement parts should be ordered from the Marantz Company. However, a simple description is included for parts which can be obtained locally.

### 1. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model ET243 consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. EQ Volume . . . . . mounted on P.W. Board PF00
2. Display . . . . . mounted on P.W. Board PR00
3. Frequency Switch . . . . . mounted on P.W. Board PS00
4. Power Switch . . . . . mounted on P.W. Board PT00
5. Main . . . . . mounted on P.W. Board PU00
6. Input Connector . . . . . mounted on P.W. Board PW00
7. Output Connector . . . . . mounted on P.W. Board PW50

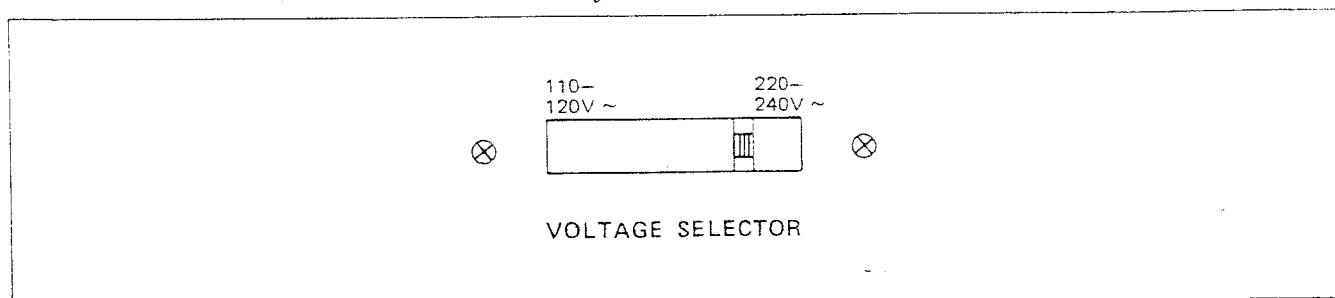
### 2. VOLTAGE CONVERSION

#### • EUROPEAN MODEL ONLY

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

**CAUTION**  
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

Voltage Conversion Chart

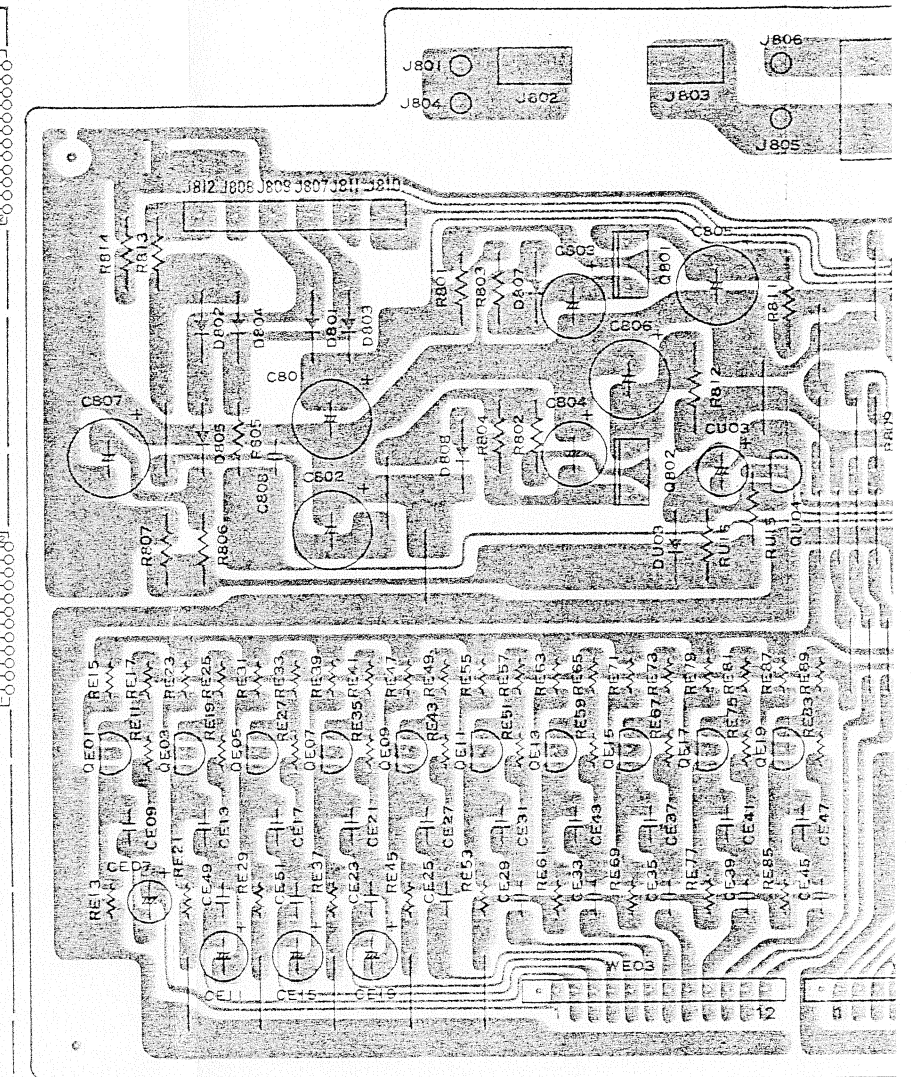
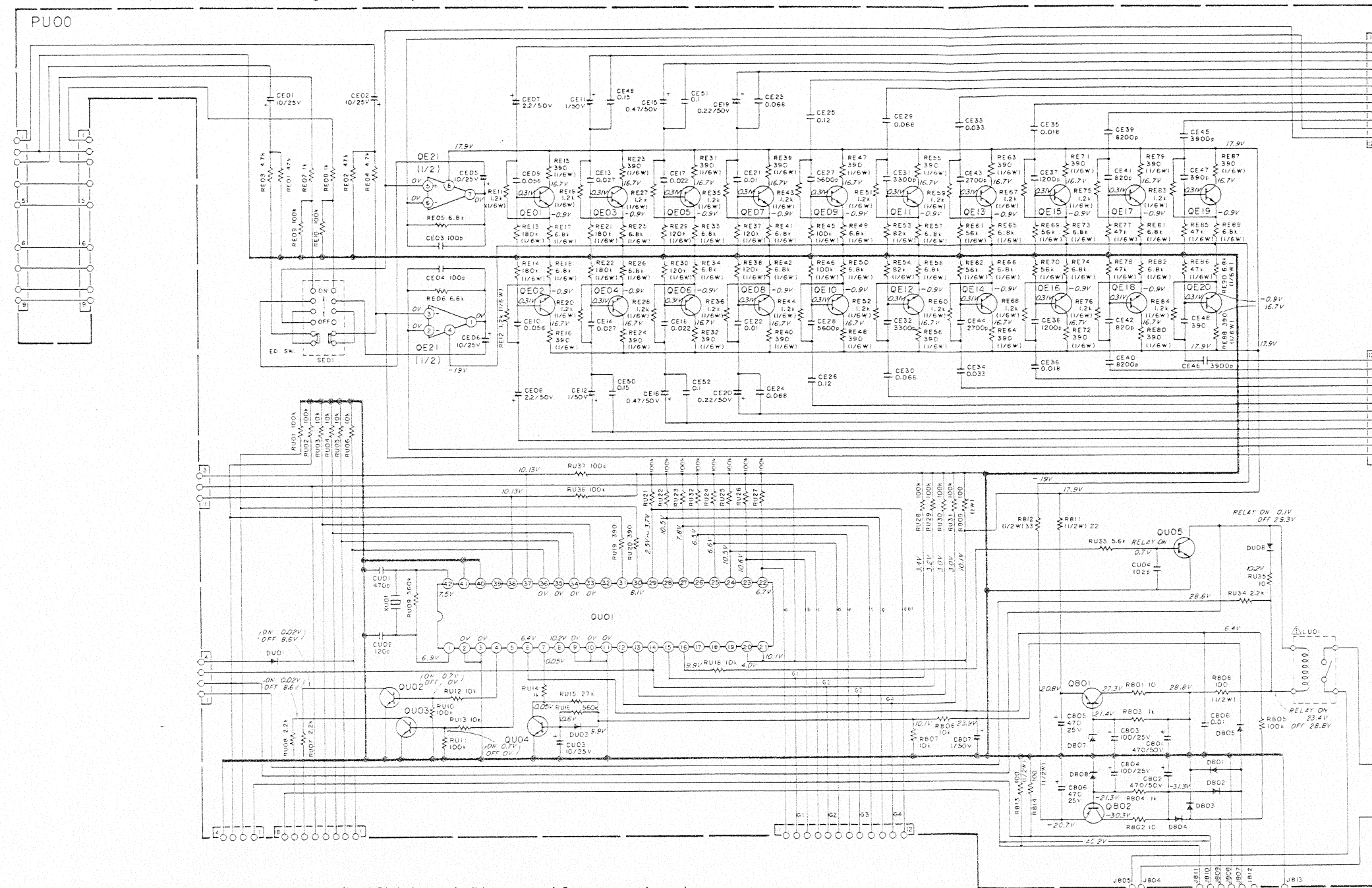


**Note on safety:** Symbol  $\triangle$  Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol  $\triangle$ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

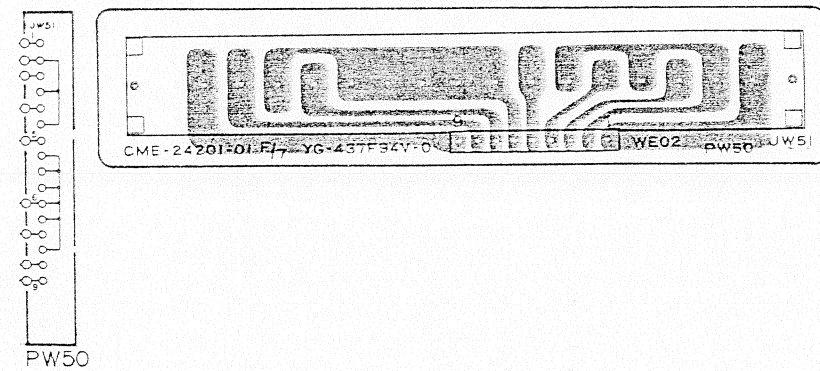


### 3. SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS

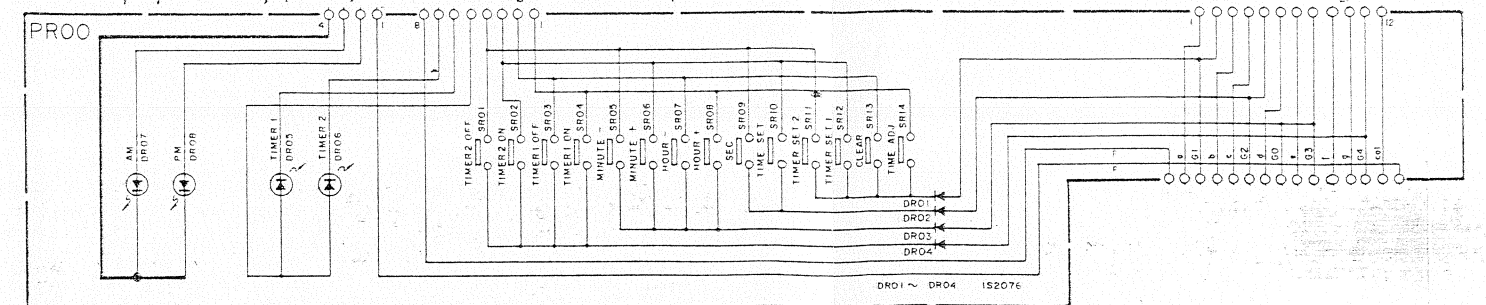
### 3.1 Main Assembly (PU00) Schematic Diagram and Component Locations



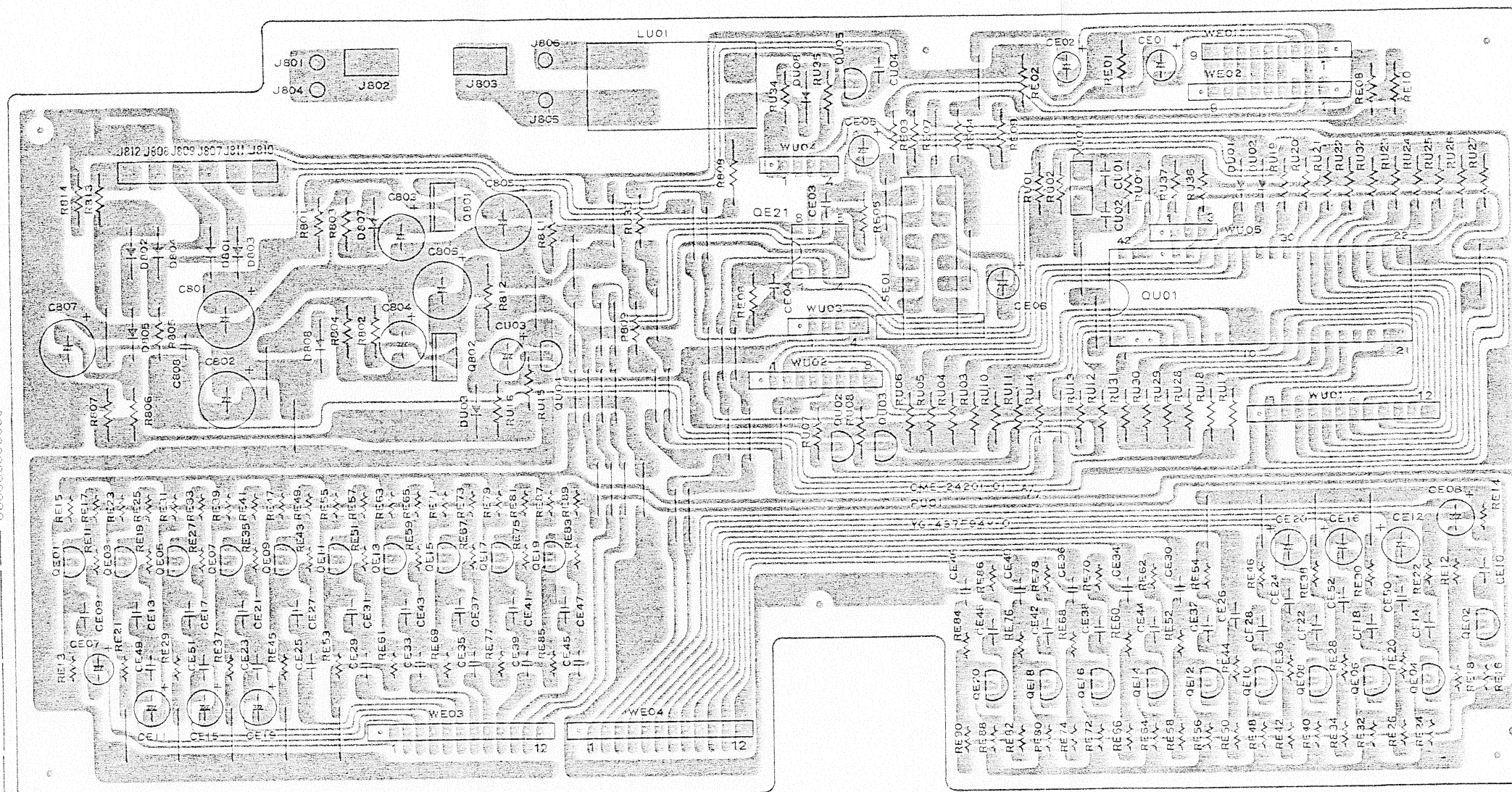
### 3.2 Output Connector Assembly (PW50) Schematic Diagram and Component Locations



### 3.3 Display Assembly (PR00) Schematic Diagram and Component Locations

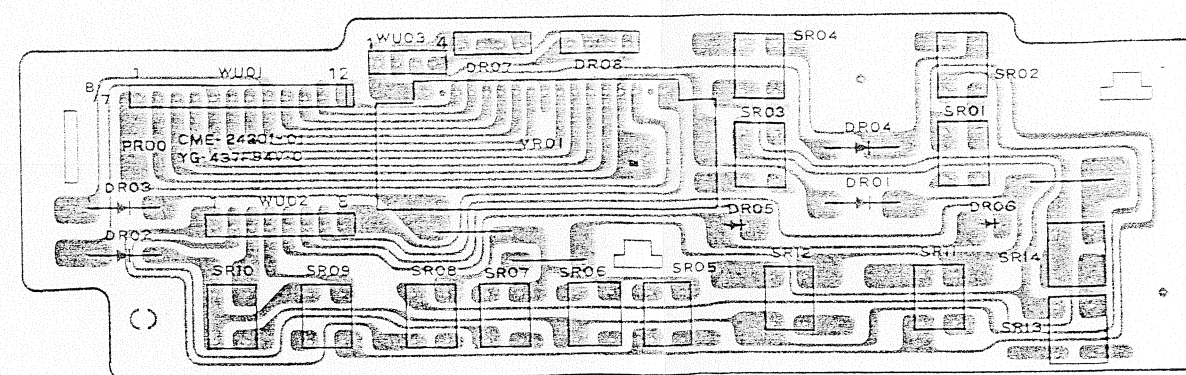






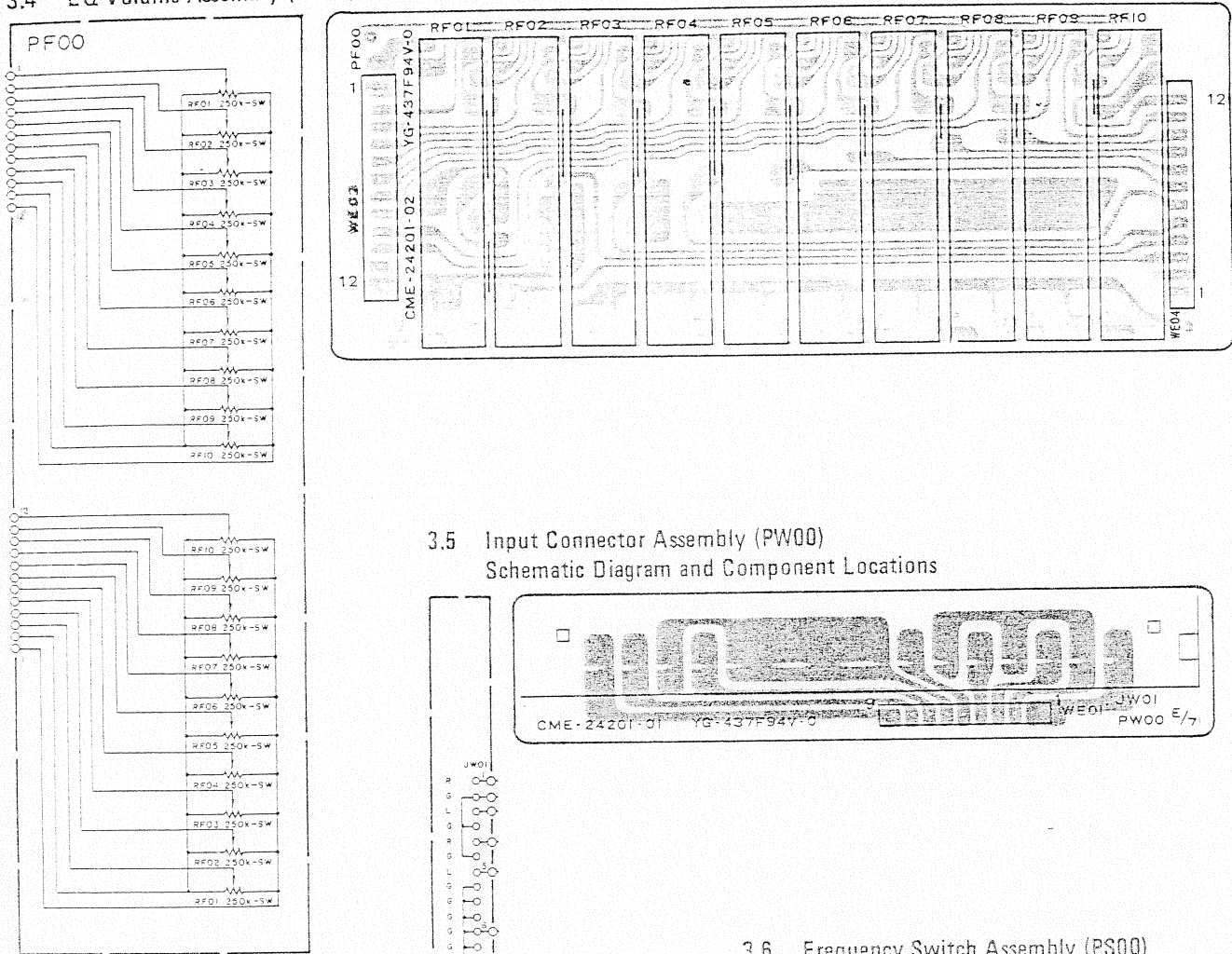
3.3 Display Assembly (Type) Schematic Diagram and Component Locations

The diagram illustrates the electrical connections for the Display Assembly (Type). It features a terminal block labeled PROO on the left, which connects to a series of components including two push buttons (PM 0007 and PM 0008), two timers (TIMER 1 0005 and TIMER 2 0006), and a series of relays (SR01 through SR14). The relays are connected to a set of four relays (DR01 through DR04) and a set of four relays (SR01 through SR14). The diagram also shows connections to a set of four relays (DR01 through DR04) and a set of four relays (SR01 through SR14). The diagram is labeled with the part number 1S2076 and the range DR01 ~ DR04.

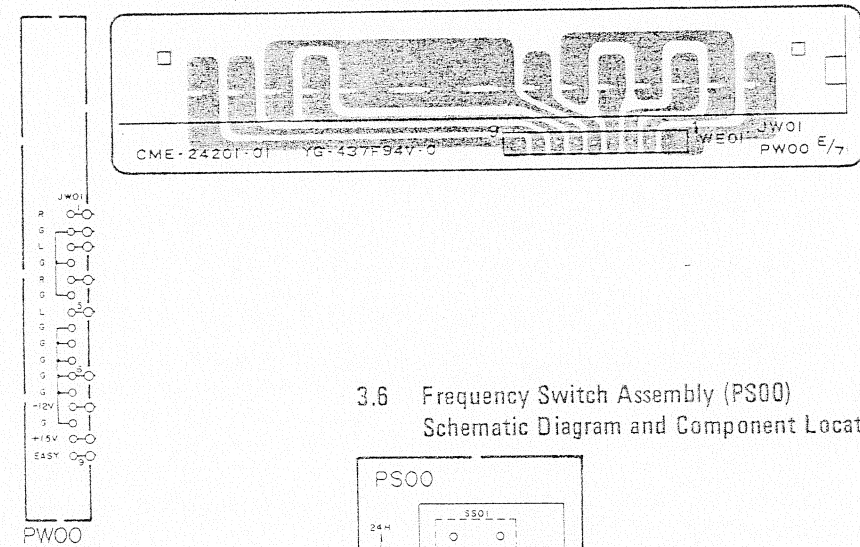




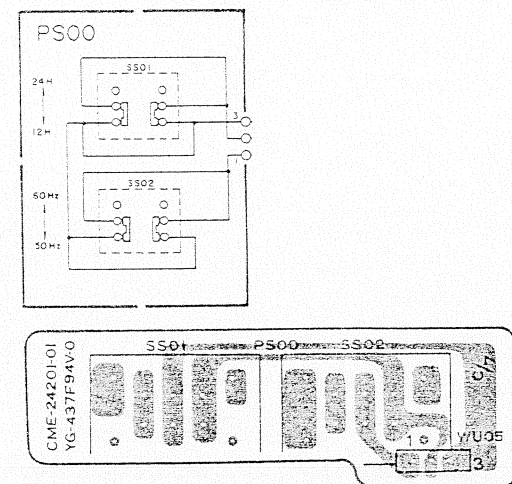
3.4 EQ Volume Assembly (PF00) Schematic Diagram and Component Locations



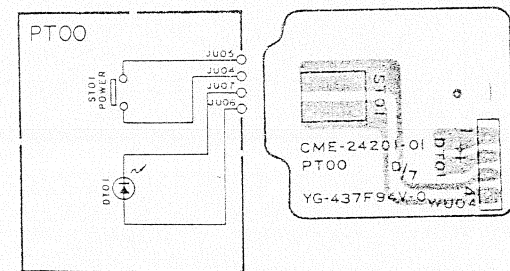
3.5 Input Connector Assembly (PW00) Schematic Diagram and Component Locations



3.6 Frequency Switch Assembly (PS00) Schematic Diagram and Component Locations

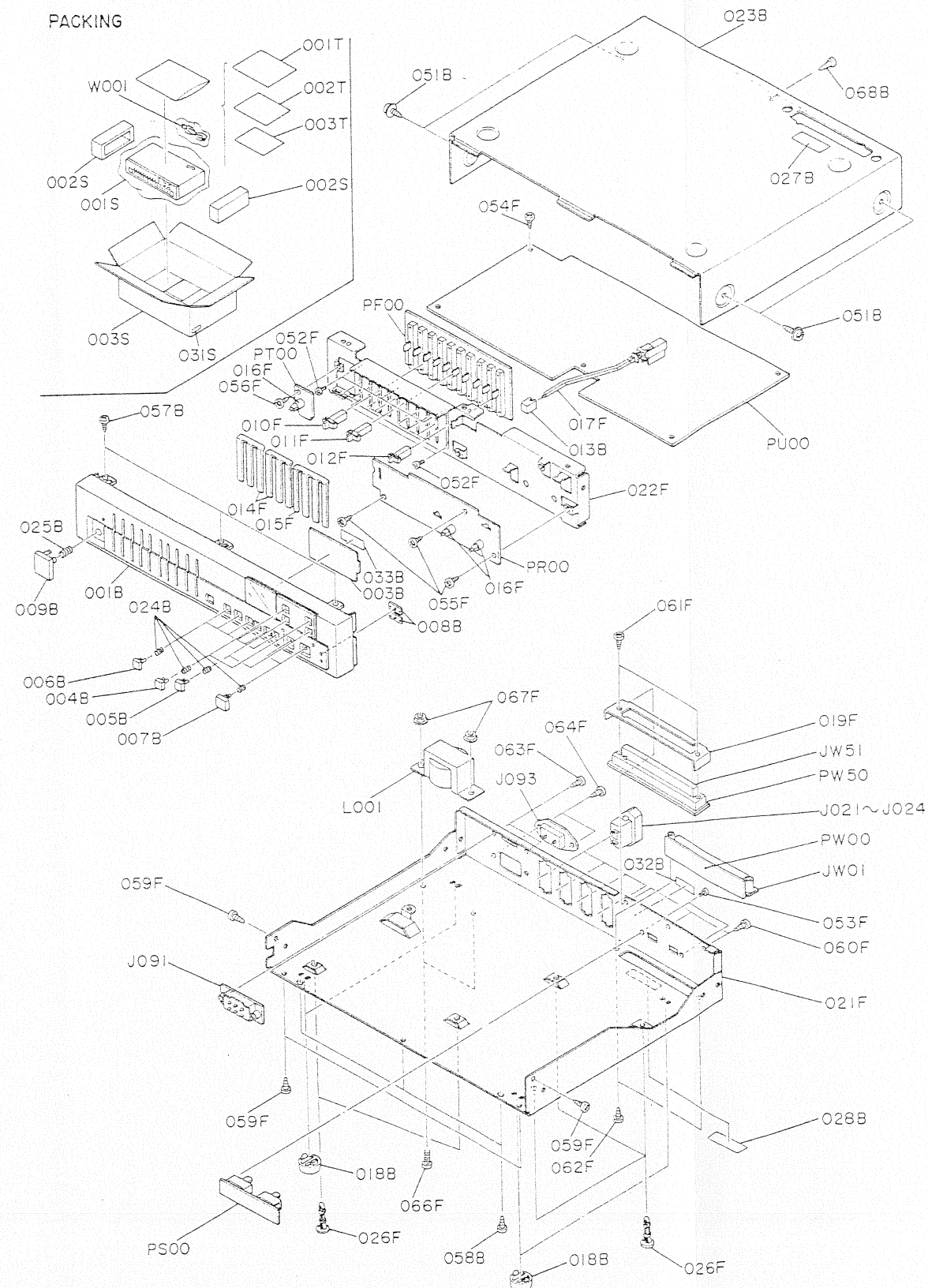


3.7 Power Switch Assembly (PT00) Schematic Diagram and Component Locations



## 4. EXPLODED VIEW AND PARTS LIST

• [P01-99] Front panel/Chassis and Packing Materials



REF. DESIG.	QTY	N	A	PAF
001B	1	1	184Z	
003B	1	1	184Z	
004B	2	2	184Z	
005B	2	2	184Z	
006B	6	6	184Z	
007B	2	2	184Z	
008B	2	2	184Z	
009B	1	1	184Z	
013B	1	1	162T	
018B	4	4	258H	
023B	1	1	184Z	
024B	12	12	184Z	
025B	1	1	184Z	
027B	1	1	184Z	
028B	1	1	184Z	
032B	1	1	2112	
033B	1	1	184Z	
051B	4	4	5126	
057B	3	3	5128	
058B	3	3	5128	
068B	1	1	5128	
010F	3	3	184Z	
011F	3	3	184Z	
012F	4	4	184Z	
014F	2	2	184Z	
015F	1	1	184Z	
016F	3	3	184Z	
017F	1	1	258H	
019F	1	1	184Z	
021F	1	1	184Z	
022F	1	1	184Z	
026F	5	5	184Z	
052F	6	6	5106	
053F	2	2	5106	
054F	1	1	5126	
055F	3	3	5126	
056F	1	1	5126	
059F	4	4	5126	
060F	3	3	5126	
061F	2	2	5126	
062F	2	2	5126	
063F	2	2	5126	
064F	2	2	5126	
066F	2	2	184Z	
067F	2	2	184Z	
ΔJ021	1	1	YJ04	
ΔJ022	1	1	YJ04	
ΔJ023	1	1	YJ04	
ΔJ024	1	1	YJ04	
ΔJ091	1	1	SS02	
ΔJ093	1	1	YPO	
ΔL001	1	1	TS10	
JW01	1	1	YP1	
JW51	1	1	YJ11	

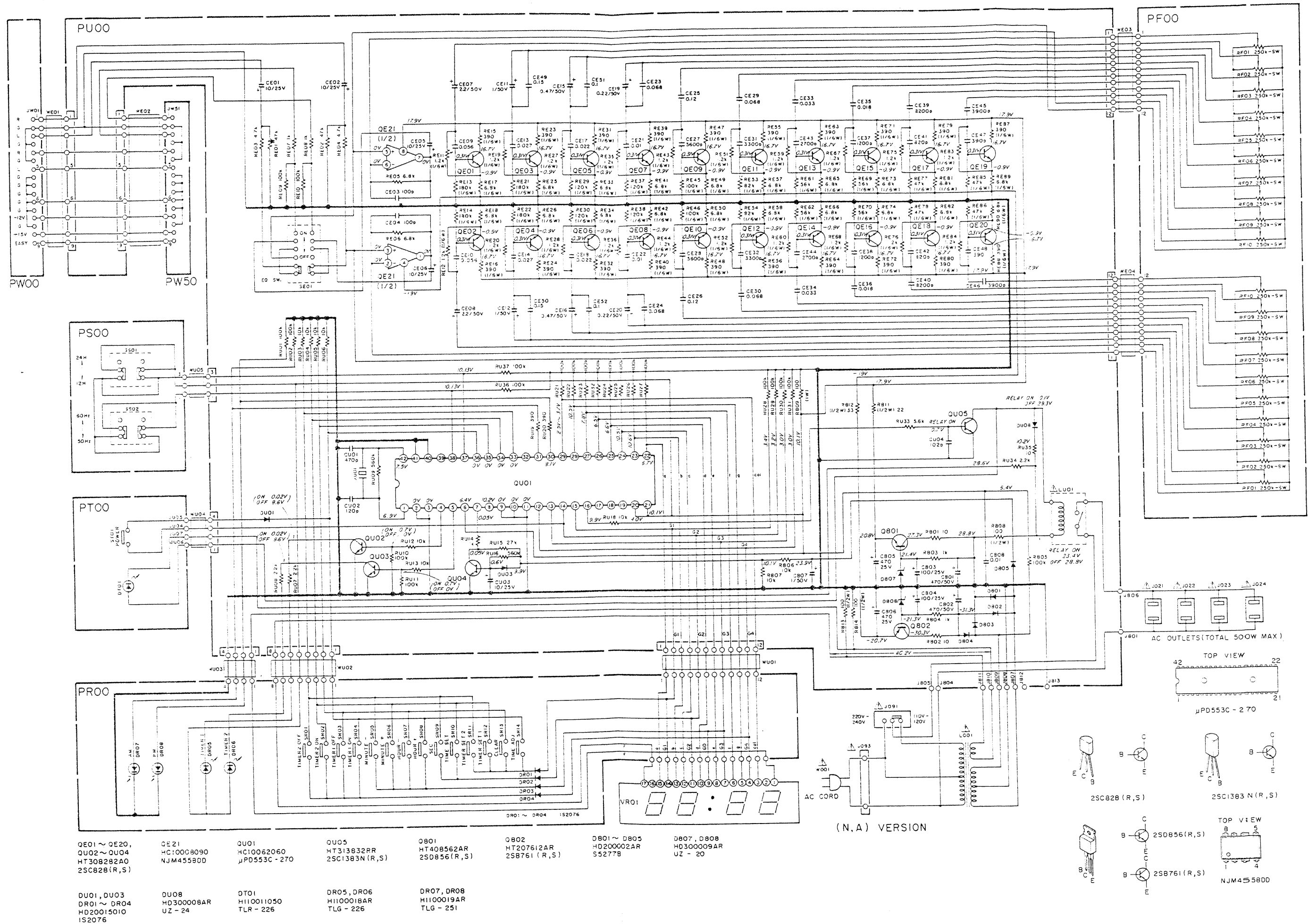
- [P01-99] Front panel/Chassis and Packing Materials



REF. DESIG.	QTY		PART NO.	DESCRIPTION
	N	A		
001B	1	1	184Z248500	Front Panel
003B	1	1	184Z265010	Indicator, AM/PM
004B	2	2	184Z270010	Button, Timer ON
005B	2	2	184Z270110	Button, Timer OFF
006B	6	6	184Z270020	Button
007B	2	2	184Z270030	Button, Timer Set 1/2
008B	2	2	184Z270040	Button, Timer Adj/Clear
009B	1	1	184Z270050	Button, Power
013B	1	1	162T270020	Button, EQ
018B	4	4	258H057010	Leg
023B	1	1	184Z257110	Lid, Top Cover
024B	12	12	184Z115010	Spring, Button
025B	1	1	184Z115020	Spring, Power Button
027B	1	1	184Z861020	Label
028B	1	1	184Z861040	Label
032B	1	1	2112265110	Indicator, Serial No.
033B	1	1	184Z303030	Mask
051B	4	4	51260306U0	B.T. Screw 83 x 6
057B	3	3	51280308B0	B.H. Tapped Screw 83 x 8
058B	3	3	51280308B0	B.H. Tapped Screw 83 x 8
068B	1	1	51280308B0	B.H. Tapped Screw 83 x 8
010F	3	3	184Z154010	Knob, 31.5Hz ~ 125Hz
011F	3	3	184Z154020	Knob, 250Hz ~ 1KHz
012F	4	4	184Z154030	Knob, 2KHz ~ 16KHz
014F	2	2	184Z303110	Mask
015F	1	1	184Z303120	Mask
016F	3	3	184Z051020	Guide, LED
017F	1	1	258H121020	Link, EQ Switch
019F	1	1	184Z160010	Bracket, Connector
021F	1	1	184Z105030	Chassis, Main
022F	1	1	184Z105010	Chassis, Sub
026F	5	5	184Z101010	Support, Main P.W. Board
052F	6	6	51060203A0	P.H.M. Screw P2 x 3
053F	2	2	51062604A0	P.H.M. Screw P2.6 x 4
054F	1	1	51280308B0	B.H. Tapped Screw 83 x 8
055F	3	3	51280308B0	B.H. Tapped Screw 83 x 8
056F	1	1	51280308B0	B.H. Tapped Screw 83 x 8
059F	4	4	51280308B0	B.H. Tapped Screw 83 x 8
060F	3	3	51280306B0	B.H. Tapped Screw 83 x 6
061F	2	2	51280308B0	B.H. Tapped Screw 83 x 8
062F	2	2	51280308B0	B.H. Tapped Screw 83 x 8
063F	2	2	51280308B0	B.H. Tapped Screw 83 x 8
064F	2	2	51280308B0	B.H. Tapped Screw 83 x 8
066F	2	2	184Z010010	Screw M3 x 8
067F	2	2	184Z011010	Nut M3
△J021	1	1	YJ040008AR	Jack, AC Outlet
△J022	1	1	YJ040008AR	Jack, AC Outlet
△J023	1	1	YJ040008AR	Jack, AC Outlet
△J024	1	1	YJ040008AR	Jack, AC Outlet
△J091	1	1	SS02020560	Slide Switch, Voltage Selector
△J093	1	1	YP04000610	Plug, AC Inlet
△L001	1	1	TS100033AR	Power Transformer
JW01	1	1	YP10002590	Plug, 16P
JW51	1	1	YJ10002020	Jack, 16P

REF. DESIG.	QTY		PART NO.	DESCRIPTION
	N	A		
001S	1	1	9014249010	PACKING Polyethylene Bag
002S	2	2	240H809040	Cushion
003S	1	1	184Z801010	Packing Case
031S	1		9526019060	Serial No. Card
031S		1	9526019030	Serial No. Card
001T	1	1	184Z851310	User Manual
002T	1	1	184Z851320	User Manual, Spec
003T		1	9631000090	Guarantee Card
±W001	1		ZC01805030	A.C. Power Cord
±W001		1	ZC02006030	A.C. Power Cord





# 5. ELECTRICAL PARTS LIST

• (N): for Europe  
• (A): for Australia

REF. DESIG.	Q'TY N A	PART NO.	DESCRIPTION
PF00	1 1	YF184Z0010	PF00-EQ VOLUME CIRCUIT BOARD
	1 1	ZZ184Z0010	P.W. Board, EQ Volume P.W. Board Assembly
RF01	10 10	RS025401AR	Variable Resistor 250K $\Omega$ (G) x 2
WE03	1 1	YU120002AR	Jumper Lead, 12P
WE04	1 1	YU120001AR	Jumper Lead, 12P
PR00	1 1	YH184Z1620	PR00-DISPLAY CIRCUIT BOARD
	1 1	ZZ184Z1620	P.W. Board, Display P.W. Board Assembly
DR01	1 1	HD20015010	Diode 1S2076
DR02	1 1	HD20015010	Diode 1S2076
DR03	1 1	HD20015010	Diode 1S2076
DR04	1 1	HD20015010	Diode 1S2076
DR05	1 1	HI100018AR	L.E.D. TLG-226
DR06	1 1	HI100018AR	L.E.D. TLG-226
DR07	1 1	HI100019AR	L.E.D. TLG-251
DR08	1 1	HI100019AR	L.E.D. TLG-251
SR01	14 14	SP010103AR	PR00-MISCELLANEOUS Push Switch
VR01	1 1	HQ30403410	Display Unit
WU01	1 1	YU120003AR	Jumper Lead, 12P
WU02	1 1	YU08220260	Jumper Lead, 8P
WU03	1 1	YU04200260	Jumper Lead, 4P
PS00	1 1	YH184Z1630	PS00-FREQUENCY SWITCH CIRCUIT BOARD
	1 1	ZZ184Z1630	P.W. Board, Frequency Switch P.W. Board Assembly
SS01	1 1	SS02020640	Slide Switch
SS02	1 1	SS02020640	Slide Switch
WU05	1 1	YU03140260	Jumper Lead, 3P
PT00	1 1	YH184Z1640	PT00-POWER SWITCH CIRCUIT BOARD
	1 1	ZZ184Z1640	P.W. Board, Power Switch P.W. Board Assembly
DT01	1 1	HI10011050	L.E.D. TLR-226
ST01	1 1	SP010103AR	Push Switch, Power
WU04	1 1	YU04260260	Jumper Lead, 4P

REF. DESIG.	Q'TY N A	PART NO.	DESCRIPTION
PU00	1 1	YH184Z1610	PU00-MAIN CIRCUIT BOARD
	1 1	ZZ184Z1610	P.W. Board, Main P.W. Board Assembly
CE01	1 1	EA10602510	PU00-CAPACITORS Elect 10 $\mu$ F 25V
CE02	1 1	EA10602510	Elect 10 $\mu$ F 25V
CE03	1 1	DK16101300	Ceramic 100pF $\pm$ 10%
CE04	1 1	DK16101300	Ceramic 100pF $\pm$ 10%
CE05	1 1	EA10602510	Elect 10 $\mu$ F 25V
CE06	1 1	EA10602510	Elect 10 $\mu$ F 25V
CE07	1 1	EA22505010	Elect 2.2 $\mu$ F 50V
CE08	1 1	EA22505010	Elect 2.2 $\mu$ F 50V
CE09	1 1	DF16563300	Film 0.056 $\mu$ F $\pm$ 10%
CE10	1 1	DF16563300	Film 0.056 $\mu$ F $\pm$ 10%
CE11	1 1	EA10505010	Elect 1 $\mu$ F 50V
CE12	1 1	EA10505010	Elect 1 $\mu$ F 50V
CE13	1 1	DF16273300	Film 0.027 $\mu$ F $\pm$ 10%
CE14	1 1	DF16273300	Film 0.027 $\mu$ F $\pm$ 10%
CE15	1 1	EA47405010	Elect 0.47 $\mu$ F 50V
CE16	1 1	EA47405010	Elect 0.47 $\mu$ F 50V
CE17	1 1	DF16223300	Film 0.022 $\mu$ F $\pm$ 10%
CE18	1 1	DF16223300	Film 0.022 $\mu$ F $\pm$ 10%
CE19	1 1	EA22405010	Elect 0.22 $\mu$ F 50V
CE20	1 1	EA22405010	Elect 0.22 $\mu$ F 50V
CE21	1 1	DF16103300	Film 0.01 $\mu$ F $\pm$ 10%
CE22	1 1	DF16103300	Film 0.01 $\mu$ F $\pm$ 10%
CE23	1 1	DF16683300	Film 0.068 $\mu$ F $\pm$ 10%
CE24	1 1	DF16683300	Film 0.068 $\mu$ F $\pm$ 10%
CE25	1 1	DF16124300	Film 0.12 $\mu$ F $\pm$ 10%
CE26	1 1	DF16124300	Film 0.12 $\mu$ F $\pm$ 10%
CE27	1 1	DF16562300	Film 5600pF $\pm$ 10%
CE28	1 1	DF16562300	Film 5600pF $\pm$ 10%
CE29	1 1	DF16683300	Film 0.068 $\mu$ F $\pm$ 10%
CE30	1 1	DF16683300	Film 0.068 $\mu$ F $\pm$ 10%
CE31	1 1	DF16332300	Film 3300pF $\pm$ 10%
CE32	1 1	DF16332300	Film 3300pF $\pm$ 10%
CE33	1 1	DF16333300	Film 0.033 $\mu$ F $\pm$ 10%
CE34	1 1	DF16333300	Film 0.033 $\mu$ F $\pm$ 10%
CE35	1 1	DF16183300	Film 0.018 $\mu$ F $\pm$ 10%
CE36	1 1	DF16183300	Film 0.018 $\mu$ F $\pm$ 10%
CE37	1 1	DF16122300	Film 1200pF $\pm$ 10%
CE38	1 1	DF16122300	Film 1200pF $\pm$ 10%
CE39	1 1	DF16822300	Film 8200pF $\pm$ 10%
CE40	1 1	DF16822300	Film 8200pF $\pm$ 10%
CE41	1 1	DK16821300	Ceramic 820pF $\pm$ 10%
CE42	1 1	DK16821300	Ceramic 820pF $\pm$ 10%
CE43	1 1	DF16272300	Film 2700pF $\pm$ 10%
CE44	1 1	DF16272300	Film 2700pF $\pm$ 10%
CE45	1 1	DF16392300	Film 3900pF $\pm$ 10%
CE46	1 1	DF16392300	Film 3900pF $\pm$ 10%
CE47	1 1	DK16391300	Ceramic 390pF $\pm$ 10%
CE48	1 1	DK16391300	Ceramic 390pF $\pm$ 10%
CE49	1 1	DF16154300	Film 0.15 $\mu$ F $\pm$ 10%
CE50	1 1	DF16154300	Film 0.15 $\mu$ F $\pm$ 10%
CE51	1 1	DF16104300	Film 0.1 $\mu$ F $\pm$ 10%
CE52	1 1	DF16104300	Film 0.1 $\mu$ F $\pm$ 10%

- (N): for Europe
- (A): for Australia

REF. DESIG.	QTY		PART NO.	DESCRIPTION			
	N	A					
CU01	1	1	DK16471300	Ceramic	470pF	±10%	
CU02	1	1	DK16121300	Ceramic	120pF	±10%	
CU03	1	1	EA10602510	Elect	10µF		25V
CU04	1	1	DK16101300	Ceramic	100pF	±10%	
C801	1	1	EA47705030	Elect	470µF		50V
C802	1	1	EA47705030	Elect	470µF		50V
C803	1	1	EA10702510	Elect	100µF		25V
C804	1	1	EA10702510	Elect	100µF		25V
C805	1	1	EA47702510	Elect	470µF		25V
C806	1	1	EA47702510	Elect	470µF		25V
C807	1	1	EA10505010	Elect	1µF		50V
C808	1	1	DK17103300	Ceramic	0.01µF	±20%	
PU00-RESISTORS							
(All Resistors are ±5% and ¼W)							
RE01	1	1	GD05473140		47KΩ		
RE02	1	1	GD05473140		47KΩ		
RE03	1	1	GD05472140		4.7KΩ		
RE04	1	1	GD05472140		4.7KΩ		
RE05	1	1	GD05682140		6.8KΩ		
RE06	1	1	GD05682140		6.8KΩ		
RE07	1	1	GD05102140		1KΩ		
RE08	1	1	GD05102140		1KΩ		
RE09	1	1	GD05104140		100KΩ		
RE10	1	1	GD05104140		100KΩ		
RE11	1	1	GD05122160		1.2KΩ	1/6W	
RE12	1	1	GD05122160		1.2KΩ	1/6W	
RE13	1	1	GD05184160		180KΩ	1/6W	
RE14	1	1	GD05184160		180KΩ	1/6W	
RE15	1	1	GD05391160		390Ω	1/6W	
RE16	1	1	GD05391160		390Ω	1/6W	
RE17	1	1	GD05682160		6.8KΩ	1/6W	
RE18	1	1	GD05682160		6.8KΩ	1/6W	
RE19	1	1	GD05122160		1.2KΩ	1/6W	
RE20	1	1	GD05122160		1.2KΩ	1/6W	
RE21	1	1	GD05184160		180KΩ	1/6W	
RE22	1	1	GD05184160		180KΩ	1/6W	
RE23	1	1	GD05391160		390Ω	1/6W	
RE24	1	1	GD05391160		390Ω	1/6W	
RE25	1	1	GD05682160		6.8KΩ	1/6W	
RE26	1	1	GD05682160		6.8KΩ	1/6W	
RE27	1	1	GD05122160		1.2KΩ	1/6W	
RE28	1	1	GD05122160		1.2KΩ	1/6W	
RE29	1	1	GD05124160		120KΩ	1/6W	
RE30	1	1	GD05124160		120KΩ	1/6W	
RE31	1	1	GD05391160		390Ω	1/6W	
RE32	1	1	GD05391160		390Ω	1/6W	
RE33	1	1	GD05682160		6.8KΩ	1/6W	
RE34	1	1	GD05682160		6.8KΩ	1/6W	
RE35	1	1	GD05122160		1.2KΩ	1/6W	
RE36	1	1	GD05122160		1.2KΩ	1/6W	
RE37	1	1	GD05124160		120KΩ	1/6W	
RE38	1	1	GD05124160		120KΩ	1/6W	
RE39	1	1	GD05391160		390Ω	1/6W	
RE40	1	1	GD05391160		390Ω	1/6W	

REF. DESIG.	QTY		PART NO.	DESCRIPTION			
	N	A					
RE41	1	1	GD05682160		6.8KΩ	1/6W	
RE42	1	1	GD05682160		6.8KΩ	1/6W	
RE43	1	1	GD05122160		1.2KΩ	1/6W	
RE44	1	1	GD05122160		1.2KΩ	1/6W	
RE45	1	1	GD05104160		100KΩ	1/6W	
RE46	1	1	GD05104160		100KΩ	1/6W	
RE47	1	1	GD05391160		390Ω	1/6W	
RE48	1	1	GD05391160		390Ω	1/6W	
RE49	1	1	GD05682160		6.8KΩ	1/6W	
RE50	1	1	GD05682160		6.8KΩ	1/6W	
RE51	1	1	GD05122160		1.2KΩ	1/6W	
RE52	1	1	GD05122160		1.2KΩ	1/6W	
RE53	1	1	GD05823160		82KΩ	1/6W	
RE54	1	1	GD05823160		82KΩ	1/6W	
RE55	1	1	GD05391160		390Ω	1/6W	
RE56	1	1	GD05391160		390Ω	1/6W	
RE57	1	1	GD05682160		6.8KΩ	1/6W	
RE58	1	1	GD05682160		6.8KΩ	1/6W	
RE59	1	1	GD05122160		1.2KΩ	1/6W	
RE60	1	1	GD05122160		1.2KΩ	1/6W	
RE61	1	1	GD05563160		56KΩ	1/6W	
RE62	1	1	GD05563160		56KΩ	1/6W	
RE63	1	1	GD05391160		390Ω	1/6W	
RE64	1	1	GD05391160		390Ω	1/6W	
RE65	1	1	GD05682160		6.8KΩ	1/6W	
RE66	1	1	GD05682160		6.8KΩ	1/6W	
RE67	1	1	GD05122160		1.2KΩ	1/6W	
RE68	1	1	GD05122160		1.2KΩ	1/6W	
RE69	1	1	GD05563160		56KΩ	1/6W	
RE70	1	1	GD05563160		56KΩ	1/6W	
RE71	1	1	GD05391160		390Ω	1/6W	
RE72	1	1	GD05391160		390Ω	1/6W	
RE73	1	1	GD05682160		6.8KΩ	1/6W	
RE74	1	1	GD05682160		6.8KΩ	1/6W	
RE75	1	1	GD05122160		1.2KΩ	1/6W	
RE76	1	1	GD05122160		1.2KΩ	1/6W	
RE77	1	1	GD05473160		47KΩ	1/6W	
RE78	1	1	GD05473160		47KΩ	1/6W	
RE79	1	1	GD05391160		390Ω	1/6W	
RE80	1	1	GD05391160		390Ω	1/6W	
RE81	1	1	GD05682160		6.8KΩ	1/6W	
RE82	1	1	GD05682160		6.8KΩ	1/6W	
RE83	1	1	GD05122160		1.2KΩ	1/6W	
RE84	1	1	GD05122160		1.2KΩ	1/6W	
RE85	1	1	GD05473160		47KΩ	1/6W	
RE86	1	1	GD05473160		47KΩ	1/6W	
RE87	1	1	GD05391160		390Ω	1/6W	
RE88	1	1	GD05391160		390Ω	1/6W	
RE89	1	1	GD05682160		6.8KΩ	1/6W	
RE90	1	1	GD05682160		6.8KΩ	1/6W	
RU01	1	1	GD05104140		100KΩ		
RU02	1	1	GD05104140		100KΩ		
RU03	1	1	GD05103140		10KΩ		
RU04	1	1	GD05103140		10KΩ		
RU05	1	1	GD05103140		10KΩ		
RU06	1	1	GD05103140		10KΩ		
RU07	1	1	GD05222140		2.2KΩ		
RU08	1	1	GD05222140		2.2KΩ		
RU09	1	1	GD05564140		560KΩ		
RU10	1	1	GD05104140		100KΩ		



- (N): for Europe
- (A): for Australia

REF. DESIG.	QTY		PART NO.	DESCRIPTION	
	N	A			
RU11	1	1	GD05104140	100K $\Omega$	
RU12	1	1	GD05103140	10K $\Omega$	
RU13	1	1	GD05103140	10K $\Omega$	
RU14	1	1	GD05102140	1K $\Omega$	
RU15	1	1	GD05273140	27K $\Omega$	
RU16	1	1	GD05564140	560K $\Omega$	
RU18	1	1	GD05103140	10K $\Omega$	
RU19	1	1	GD05391140	390 $\Omega$	
RU20	1	1	GD05391140	390 $\Omega$	
RU21					
?	12	12	GD05104140	100K $\Omega$	
RU32					
RU33	1	1	GD05562140	5.6K $\Omega$	
RU34	1	1	GD05222140	2.2K $\Omega$	
RU35	1	1	GD05100140	10 $\Omega$	
RU36	1	1	GD05104140	100K $\Omega$	
RU37	1	1	GD05104140	100K $\Omega$	
RU38	1	1	GD05104140	100K $\Omega$	
R801	1	1	GD05100140	10 $\Omega$	
R802	1	1	GD05100140	10 $\Omega$	
R803	1	1	GD05102140	1K $\Omega$	
R804	1	1	GD05102140	1K $\Omega$	
R805	1	1	GD05104140	100K $\Omega$	
R806	1	1	GD05103140	10K $\Omega$	
R807	1	1	GD05103140	10K $\Omega$	
R808	1	1	GD0510112R	100 $\Omega$	1/2W
R809	1	1	GJ05101010	100 $\Omega$	1W
R811	1	1	GD0522012R	22 $\Omega$	1/2W
R812	1	1	GD0533012R	33 $\Omega$	1/2W
R813	1	1	GD0510112R	100 $\Omega$	1/2W
R814	1	1	GD0510112R	100 $\Omega$	1/2W
PU00-SEMICONDUCTORS					
QE01					
?	20	20	HT308282A0	Transistor	2SC828(R, S)
QE20					
QE21	1	1	HC10008090	IC	NJM4558DD
QU01	1	1	HC10062060	IC	$\mu$ PD553C-270
QU02	1	1	HT308282A0	Transistor	2SC828(R, S)
QU03	1	1	HT308282A0	Transistor	2SC828(R, S)
QU04	1	1	HT308282A0	Transistor	2SC828(R, S)
QU05	1	1	HT313832RR	Transistor	2SC1383N(R, S)
Q801	1	1	HT408562AR	Transistor	2SD856(R, S)
Q802	1	1	HT207612AR	Transistor	2SB761(R, S)
DU01	1	1	HD20015010	Diode	1S2076
DU03	1	1	HD20015010	Diode	1S2076
DU08	1	1	HD300008AR	Zener	UZ-24
D801	1	1	HD200002AR	Diode	S5277B
D802	1	1	HD200002AR	Diode	S5277B
D803	1	1	HD200002AR	Diode	S5277B
D804	1	1	HD200002AR	Diode	S5277B
D805	1	1	HD200002AR	Diode	S5277B
D807	1	1	HD300009AR	Zener	UZ-20
D808	1	1	HD300009AR	Zener	UZ-20

REF. DESIG.	QTY		PART NO.	DESCRIPTION	
	N	A			
WE01	1	1	YJ06002470	Jack, 9P	
WE02	1	1	YJ06002470	Jack, 9P	
WE03	1	1	YJ06002280	Jack, 12P	
WE04	1	1	YJ06002280	Jack, 12P	
WU01	1	1	YJ06002280	Jack, 12P	
WU02	1	1	YJ06002270	Jack, 8P	
WU03	1	1	YJ06002440	Jack, 4P	
WU04	1	1	YJ06002440	Jack, 4P	
WU05	1	1	YJ06002430	Jack, 3P	
J813	1	1	YL01010110	Terminal, Earth	
$\Delta$ LU01	1	1	LY124001AR	Relay, 14V	
SE01	1	1	SP040102AR	Push Switch, EQ	
XU01	1	1	EQ0400301R	Ceramic Vibrator, 400kHz	
PW00-INPUT CONNECTOR CIRCUIT BOARD					
PW00	1	1	YH184Z1650	P.W. Board, Input Connector	
	1	1	ZZ184Z1650	P.W. Board Assembly	
JW01	1	1	YP10002590	Plug, 16P	
WE01	1	1	YU090001AR	Jumper Lead, 9P	
PW50-OUTPUT CONNECTOR CIRCUIT BOARD					
PW50	1	1	YH184Z1660	P.W. Board, Output Connector	
	1	1	ZZ184Z1660	P.W. Board Assembly	
JW51	1	1	YJ10002020	Jack, 16P	
WE02	1	1	YU090002AR	Jumper Lead, 9P	

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

#### NOTE ON SAFETY:

Symbol  $\Delta$  Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol  $\Delta$ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

## 6. TECHNICAL SPECIFICATIONS

### AUDIO SECTION

RATED OUTPUT	150 mV
TOTAL HARMONIC DISTORTION AT RATED OUTPUT, 20 Hz TO 20 kHz	0.005%
I.M. DISTORTION AT RATED OUTPUT (250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1)	0.005%
Sensitivity for Rated Output	150 mV
Frequency Response ( $\pm 1$ dB)	20 Hz ~ 40 kHz
Signal-to-Noise Ratio	95 dB
Channel Balance	$\pm 1$ dB
Inter Channel Crosstalk (1 kHz)	60 dB
Output Voltage (1 kHz)	3V
Input Impedance (1 kHz)	47 kohms
Output Impedance (1 kHz)	
LINE OUT	600 ohms
EQ Action for each channel (31.5 Hz, 63 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 16 kHz)	$\pm 12$ dB

### GENERAL

Power Requirement	AC 110–120V/220–240V, 50/60 Hz
Power Consumption	12W
Digital Display	4 digits fluorescent tube
Time Indication Accuracy	Depends on AC mains frequency
Outlet Rating	Total 500W Max.
Dimensions (W x H x D)	320 x 55 x 260 mm
Weight	2.5 kg

Specifications and appearance are subject to change for modification without notice.

## MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ equipment are generally available to our National Marantz Subsidiary or Agent.

### ORDERING PARTS:

Parts can be ordered either by mail or by telex. In both cases, MARANTZ part number has to be specified. If you order by mail, fulfil MARANTZ order forms.

MARANTZ S.A.  
EUROPEAN PARTS DEPARTMENT  
2, Avenue Léopold III  
B-7120 PERONNES-lez-BINCHE  
BELGIUM  
TWX: 57589 SEPLT B

The following information must be supplied to eliminate delays in processing your order:

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature: any order form or telex must be signed otherwise such part order will be considered as null and void.

### PARTS ORDERING:

Parts may be ordered from the following addresses:

#### EUROPE

**MARANTZ S.A.**  
European Parts Department  
2, Avenue Léopold III  
B-7120 Péronnes-lez-Binche  
Belgium  
Telex: 57589

**MARANTZ DENMARK**  
Bregnerødvej 132b  
3460 Birkerød  
Denmark  
Telex: 39137

**MARANTZ BELGIUM**  
45 Rue Auguste Van Zande  
1080 Brussels  
Belgium

**MARANTZ NEDERLAND B.V.**  
Wagenmakersweg 3  
3449 HV Woerden  
Netherlands

**MARANTZ S.A.**  
326 Avenue Louise Bte 32  
1050 Bruxelles  
Belgium  
Telex: 26602

**MARANTZ FRANCE**  
4 Rue Bernard Palissy  
92600 Asnières  
France  
Telex: 611651

**MARANTZ SVENSKA A.B.**  
Svertviksvägen 56  
Traneberg Bromma  
Sweden  
Telex: 13449

**MARANTZ ITALIANA S.p.A.**  
Via Monte Napoleone, 10  
20121 Milano  
Italia

**MARANTZ GERMANY G.M.B.H.**  
Max-Planckstrasse 22  
6072 Dreieich 1  
Germany  
Telex: 4185316

**MARANTZ AUDIO U.K. LTD.**  
Unit 15/16  
Saxon Way Industrial Estate  
Moor Lane  
Harmondsworth UB7 0LW  
Great Britain  
Telex: 935196

**MARANTZ AUSTRIA Ge.M.B.H.**  
25 Franz Lisztgasse  
2380 Perchtoldsdorf  
Austria  
Telex: 113583

#### AUSTRALIA

**MARANTZ AUSTRALIA PTY., LTD.**  
19 Chard Road  
Brookvale, NSW 2100  
Australia  
Telex: 24121

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please, contact the nearest facility for the necessary assistance.

In case of difficulties, do not hesitate to contact the Technical Department at abovementioned address.

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